Ax51B IR Bullet Camera
User Guide

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Before attempting to connect or operate this product, read these instructions carefully.
Save this manual for future use.

Ax51B IR Bullet Camera User Guide

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FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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1. Warnings and operation notes

Thank you for purchasing i3 Ax51B IR Fixed Bullet camera.

Please read this guide carefully before you install the camera. Keep this guide for future reference.

Ax51B comes with a fixed lens and a built-in heater. 24 high quality IR illuminators built around the lens facilitate crystal clear pictures with no outside illumination as far as 25 meters (82 ft). Plus, with IP67-rated all-weather waterproof, aluminum casing, this camera is ideal for outdoor applications such as convenience stores, streets and parking lots. PoE, DC12V and AC24V power is supported in the indoor installations, where the heater is not required. Use DC24V/AC24V power for outdoor installations only to supply enough power to the built-in heater.

If the system needs to be modified or repaired, contact a certified i3 International Dealer/Installer. **When serviced by an unauthorized technician, the system warranty will be voided.** Should you have any problems or questions regarding our products, contact your local i3 International Dealer/Installer.

1.1 Precautions

Installation and serving should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.

When installing your Ax51B camera be sure to avoid:

- excessive heat, such as direct sunlight or heating appliances
- contaminants such as dust and smoke
- strong magnetic fields
- sources of powerful electromagnetic radiation such as radios or TV transmitters
- moisture and humidity
- areas with mechanical vibrations
- fluorescent lamps or objects that reflect light
- unstable light sources as this may cause flickering
- temperatures below -40° Celsius or -40° Fahrenheit and above 50° Celsius or 122° Fahrenheit.

WARNING! The use of CSA certified/ UL Listed Class 2 power adapter is required to ensure compliance.

WARNING! To reduce the risk of fire or electric shock, do not expose the product to rain or moisture.

1.2 Power Supply

Ensure the supplied voltage meets the power consumption requirements of this camera before powering the camera on. Incorrect voltage may cause irreparable damage to the video camera and will effectively void the camera warranty.
PoE, DC12V and AC24V power is supported in the indoor installations, where the heater is not required. Use DC24V/AC24V power for outdoor installations only to supply enough power to the built-in heater.

1.3 Cleaning

- For maximum optical clarity, the camera or lens must remain clean. Use a soft, dry cloth to remove finger prints and dust from the dome cover.
- Use a blower to remove dust from the lens.
- Clean the body with a soft, dry cloth. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene, or thinners, as they may damage the surface finish.

1.4 Servicing

To avoid electrical shock and to preserve the product warranty, DO NOT disassembles the camera. Refer servicing to qualified personnel only.

2. Product Overview

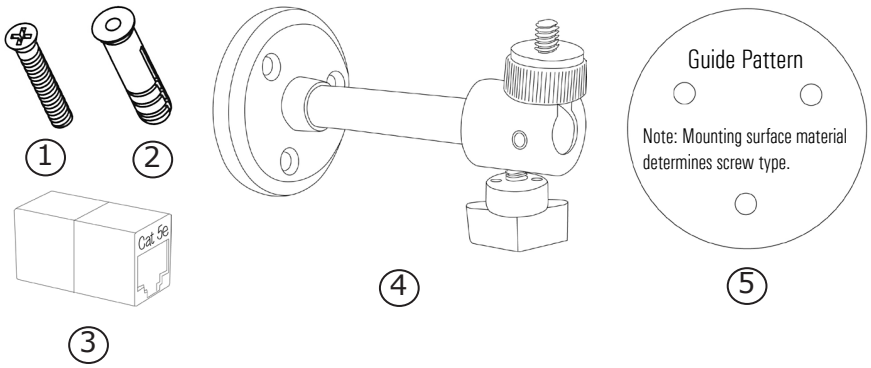
- High Definition Images
  Clear and detailed HD quality images in all conditions. Unlike other megapixel cameras, Ax51B-series offer higher resolutions and better frame rates. Blurry images are reduced and individuals and objects of interest come with perfect clarity.

- **Triple Streaming**
  The Ax51B-series Network Camera is designed to show extreme image detail. H.264/MPEG4/MJPEG triple streaming allows you to choose the appropriate code for your bandwidth.
- **Cost-saving H.264 Support**
  The AX51B-series support the H.264 compression standard. H.264 greatly reduces the size of video without compromising image quality. Storage and bandwidth are reduced.

3. Unpacking

Ensure that the items received match those listed on the order form and packing slip. The dome camera packing box includes, in addition to this manual:

1. Flat Head Screw (Tapping Type) x3
2. Plastic Anchor x3
3. RJ-45 Female / Female Coupler
4. Mounting Pack-in Bracket
5. Guide Pattern Sticker x1
6. Printed Quick Start Guide x1
7. CD (User Manual, Annexxus Finder, Quick Start Guide) x1
8. Fully Assembled Network Bullet IR Camera x1

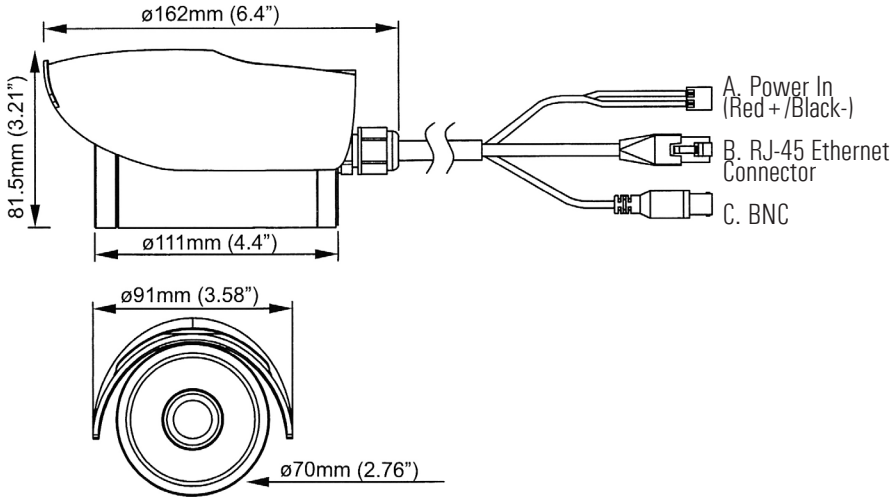


If any parts are missing or damaged, contact the dealer you purchased the camera from.

4. Installation

Use the provided bracket and equipment to mount the camera. After installation, your network camera should be accessed from your local network. See Section 5: Connecting your IP Camera to SRX-Pro Server.

4.1 Dimensions



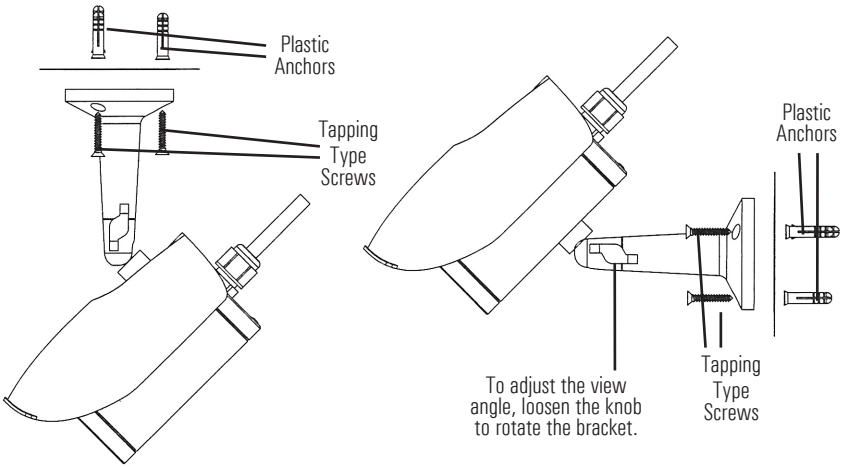
A. **Power In:** (Red+/Black-): power connector.
Use DC12V/AC24V for indoor applications, use DC24V/AC24V for outdoor applications to supply enough power to the built-in heater.

B. **RJ-45 Ethernet Connector:** network connection.
Supports PoE (Power over Ethernet) cable for indoor applications. PoE power will not work when the camera is installed outdoors where the use of heater is required for camera operations.
Note: If PoE (Power over Ethernet) connector is used, an electrical cable is not required

C. **BNC:** video output

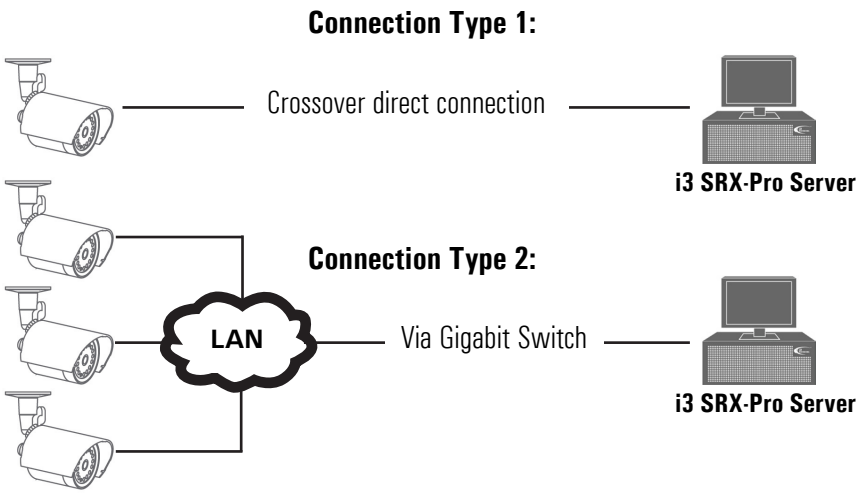
4.3 Wall/Ceiling Mount Installation / Adjusting Camera Position

1. Adhere the "Guide Pattern Sticker" to the desired location on the mounting surface and mark hole positions.
2. Drill 3 mounting holes on the mounting surface according to the guide sticker.
3. For cement surfaces, insert the Plastic Anchors into the holes. For softer surfaces, do not use the Plastic anchors.
4. Secure the mounting bracket to the surface using the provided screws.


Plastic Anchors
Tapping Type Screws
Plastic Anchors
To adjust the view angle, loosen the knob to rotate the bracket.
Tapping Type Screws

5. Connecting your IP Camera to the SRX-Pro Server

5.1 Camera Connection Options



5.2 Hardware/Software Requirements

The following requirements must be met to achieve a successful network connection with the Ax51B IR Bullet IP camera.

SRX-Pro Server:

- i3 SRX-Pro Version 3.0 or higher
- Latest GiPi adapter is installed. GiPi adapters can be downloaded from i3 FTP website. (Please contact i3 Technical Support for more information.)
- Windows XP, XPe or 7 Pro or 7e
- Internet Explorer Version 6.0 or later
- CPU: Intel Pentium Core 2 or higher
- Memory: 1GB or more
- VGA card--supporting Direct X 9.0 or above

Power Supply

PoE, DC12V and AC24V power is supported in the indoor installations, where the heater is not required. Use DC24V/AC24V power for outdoor installations only to supply enough power to the built-in heater.

Note: Camera damages resulted from improper power application are NOT covered by the camera warranty.

Switch

A Gigabit Switch is required to monitor two or more cameras from the same SRX-Pro Server.

5.3 Using Annexxus Finder to assign IP Address to your IP Camera

To connect your Annexxus camera to your SRX-Pro Server, follow these instructions:

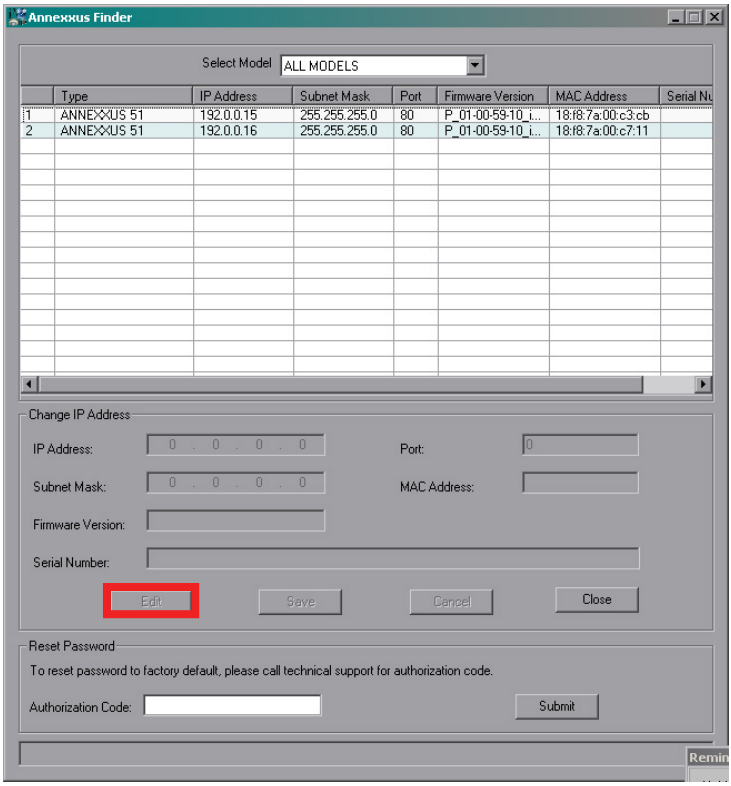
1. Close SRX-Pro Server software by pressing **Alt+Shift+Ctrl+F4**.
2. Change the IP address on the onboard NIC (LAN) (or on NIC1 if your SRX-Pro Server has two onboard NIC cards) of your SRX-Pro Server to **192.0.0.XXX** to

> Camera's default IP address is **192.0.0.16**
> Camera's default subnet mask address is **255.255.255.0**.
> Default camera User Name: ***admin*** and default Password: ***1234***

match the default IP range of your Annexxus IP camera.

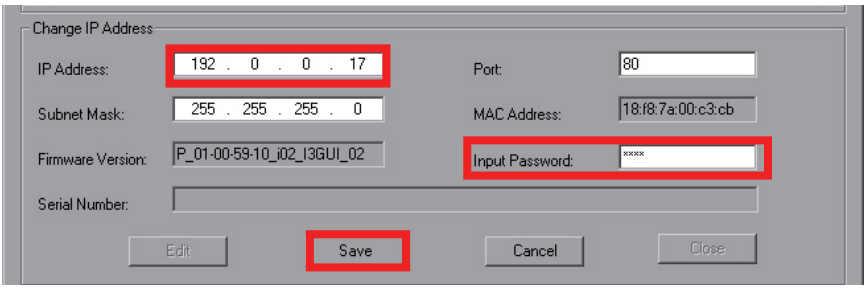
3. Connect the network cable from the SRX-Pro Server (crossover direct connection) or from the Gigabit switch to your Annexxus camera.
4. Turn on your Annexxus camera.
5. Locate the CD that came with your Annexxus camera and insert it in the CD-ROM drive of your SRX-Pro Server.
6. Double-click "AnnexxusFinder.exe" file to install Annexxus Finder application. Annexxus Finder application discovers all Annexxus cameras connected to your network.
7. Follow the Annexxus Finder installation instructions until the application has been successfully installed on your SRX-Pro Server.
8. Double-click Annexxus Finder icon on the Desktop to launch the application. The application window will appear displaying a list of active network cameras
9. Next, select desired camera in the Annexxus Finder software by double-clicking it in the list and click **Edit**.
10. Enter the new IP address and Subnet Mask of the camera in the ***Change IP***

Address area. The new camera IP address must match the original range of your SRX-Pro LAN or NIC1 card.



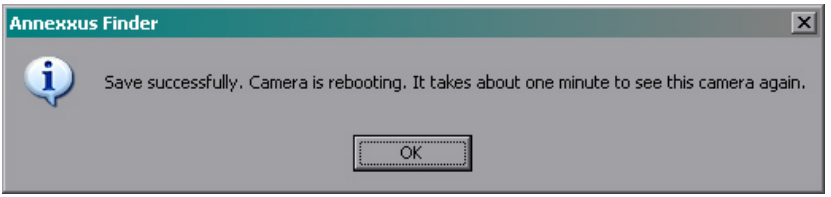
E.g. If your original SRX-Pro Server's IP address was 192.138.10.122, change your Annexxus camera's IP address to 192.138.10.XXX.
Remember: Annexxus Cameras cannot share an IP address, each camera requires its own unique IP address.

11. Enter the default camera password: **1234** in the Input Password field and click

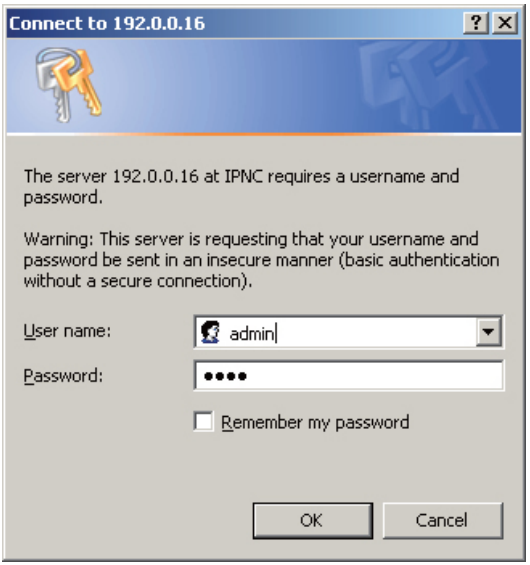


Save.

12. Wait a few moments as the new IP address is being applied to your Annexxus camera. Wait for the following message to be displayed. Click **OK** to close it.
13. Repeat Steps 1-12 for all detected Annexxus cameras in the Annexxus Finder.
14. Now that the new IP address has been successfully assigned to your camera, make sure you can connect to it through the Internet Explorer:
15. Launch Internet Explorer on your SRX-Pro Server and enter the IP Address you have just assigned to your Annexxus camera. The password window should be displayed.

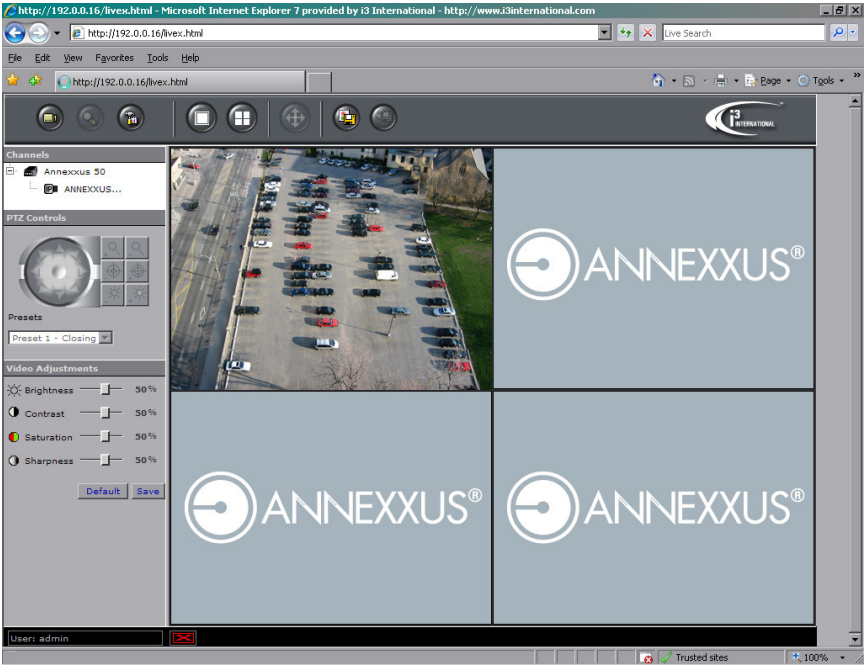


16. Enter the default camera User Name: ***admin*** and default Password: ***1234***
17. Annexxus camera interface will be displayed in the Internet Explorer window. You should be able to see the camera image on the screen.


Connect to 192.0.0.16
The server 192.0.0.16 at IPNC requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
admin
Password:
Remember my password
OK
Cancel

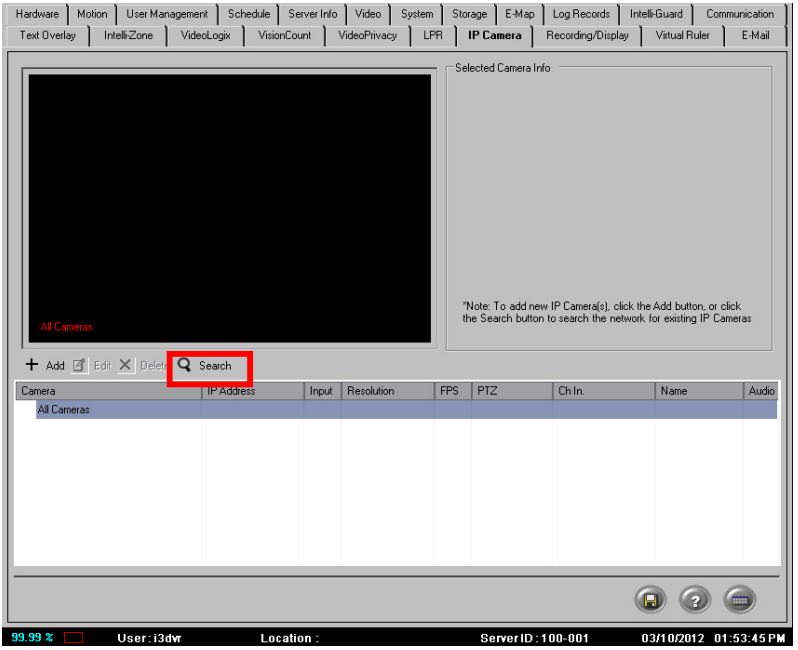
If you do not see the camera image on the screen, call i3 International tech support for troubleshooting tips: 1.877.877.7241

5.4 Adding your IP Camera to your SRX-Pro Server

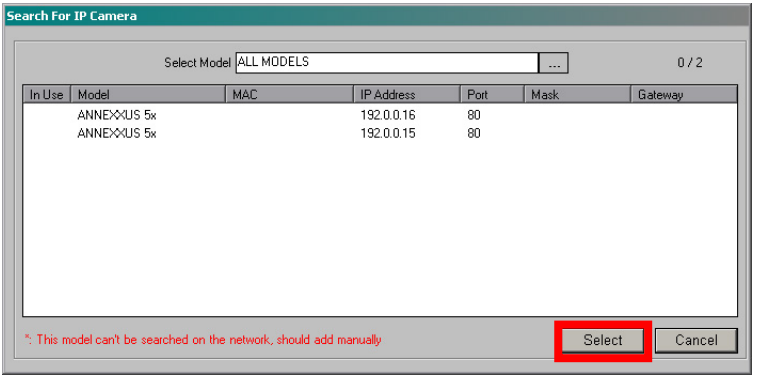


1. Make sure that the latest version of GiPi updater is installed on your SRX-Pro Server. You can download the updates from ftp://files.123ip.com/drivers/gipi. Please contact i3 Technical Support team for access information.
2. Once the latest GiPi updater has been installed, restart i3 SRX-Pro Server software.
3. Log In and go to the Setup -> IP Camera tab.
4. Click the **Search** button to display connected Annexxus cameras.
5. Select the detected camera in the list and click **Select**.

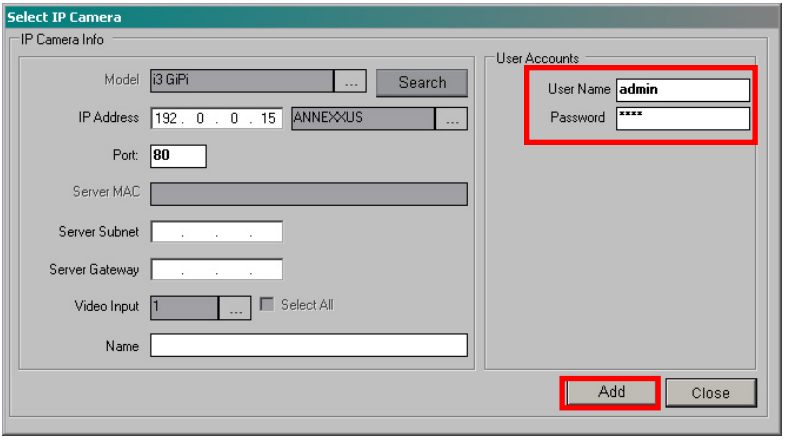
6. In the *Select IP Camera* window, enter the default camera User Name: ***admin***



and default Password: ***1234***, then click **Add.**

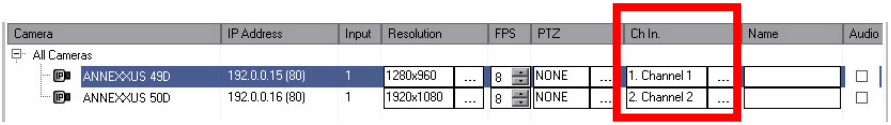


7. The selected camera will be added to the IP Camera list.
   Don't forget to assign the IP camera to the SRX-Pro video channel in the



   corresponding column (highlighted).

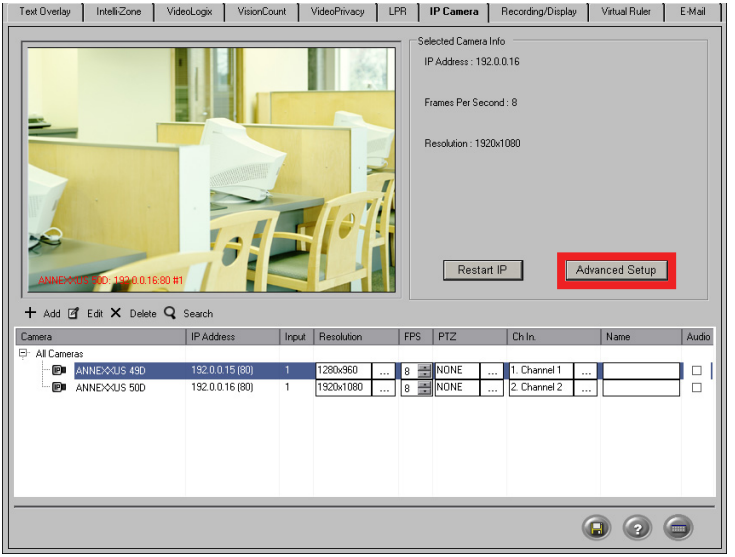
8. Your Annexxus camera is now connected to SRX-Pro Server and is ready to record. You may change resolution and frame rate for the Annexxus camera in



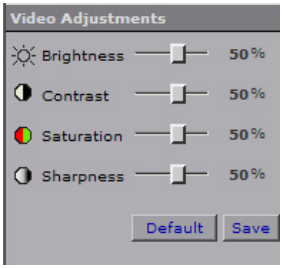
   the *IP Camera* tab menu or you may choose to configure the camera's advanced settings (see the following section).

6. Advanced Camera Setup

To access Annexxus camera's advanced setup, go to Setup -> IP Camera tab, select the camera in the list of added IP cameras and click the **Advanced Setup** button.



The password window should be displayed. Enter the default camera User Name: ***admin*** and default Password: ***1234***. Camera's user interface will be displayed in a separate Internet Explorer window.



In the main interface, you may adjust your camera's Brightness, Contrast, Saturation and Sharpness levels.

Click **Save** to save adjusted settings or **Default** to set all settings back to 50%.

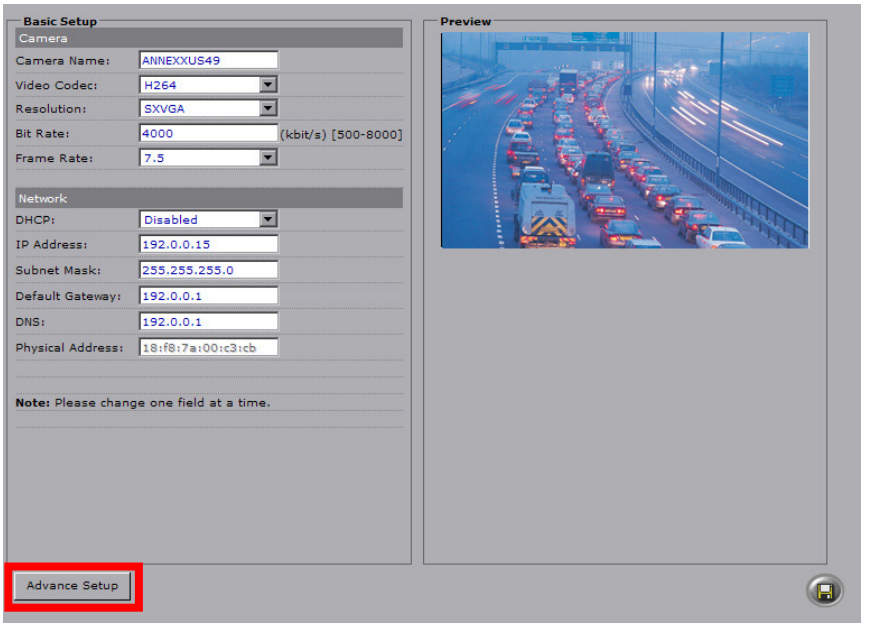
Note: This panel is enabled in the Live View mode only and is disabled when in the Setup mode.

Next, click the Setup button to access Annexxus camera Setup features.

6.1 Basic Setup

After making any setting adjustments, remember to click the **Save** button to save any changes made.

You may switch to the advanced setup at any time by clicking the button in the bottom left-hand corner. To switch back to the Basic Setup, click the same button again.



Basic Setup is divided into Camera and Network settings. Settings that can be configured in this setup tab:

Camera Settings:

- Camera Name: The name of the camera will be displayed at the top of the Internet browser page.
- Video Codec: Set the compression mode to MJPEG, H264 or MPEG4
- Resolution: Set the resolution of the recorded video to D1, SVGA, XGA, 720P, SXVGA or 1080P (full HD).
- Bit Rate (for H264/MPEG4 codecs): Set the video bit rate from 500-8000 kbit/s
- Quality (for MJPEG codec only): HIGH, NORMAL, LOW
- Frame Rate: Set the frame rate for the recorded video to 1, 3, 7.5, 10, 15 (available only with 1080P resolution), or 30 fps (unavailable with 1080P resolution)

Network settings:

- DHCP: Enable or Disable to have the network automatically assign an IP address to the camera.
- IP Address: Manually enter the camera's IP address here.
  This option should NOT be used if DHCP is enabled.
- Subnet Mask: Manually enter the camera's Subnet Mask here.
  This option should NOT be used if DHCP is enabled.
- Default Gateway: Provide the IP address of the network's router if necessary.
  Contact your network administrator for this information.
- DNS: Specify a DNS if necessary.
  Contact your network administrator for this information.
- Physical Address: This is the camera's unique MAC Address. It may not be changed.

6.2 Video Setup

Switch to the Advanced Setup by clicking the **Advance Setup** button on the bottom left-hand corner of the screen as shown on the previous page. The Setup screen will change to reveal multiple setup tabs. Video Setup tab is displayed by default.

Camera Settings:

- Frequency: Select the option which best reduces image flicker: 50Hz or 60Hz
- TV System: NTSC or PAL. Your camera comes pre-programmed with this setting. If you find that your camera came pre-programmed with the wrong TV System setting, contact the dealer you purchased the camera from.
- Mirror: Flips the video image. The options for mirror are:
  - » OFF: Do not use this feature
  - » HORIZONTAL: flip images left to right.
  - » VERTICAL: flip images upside-down.
  - » BOTH: flip both HORIZONTAL and VERTICAL.
- Rate Control: Choose the bit rate of encoding. The options for rate control are:
  - » VBR (Variable Bit Rate): Maintains good image quality, but will consume more bandwidth. This setting is not recommended for variable scenes such as outdoor environments, but is best suited for recording to a local storage drive or based on video analytics, where quality is desired.
  - » CBR (Constant Bit Rate): Produces the smoothest streaming for variable scenes, but is not ideal if highest image quality is desired.

Annexxus 51B camera series supports triple streaming, where Primary Streaming is the default stream used for video recording and Third Streaming is used for Live Viewing. Each stream can be configured separately.

Note: Enabling Streams 2 and 3 may cause frames being dropped on Stream 1.

Configure Stream 1 - Primary Streaming (Recorded Video):

- Video Codec: Set the compression mode to MJPEG, H264 or MPEG4
- Resolution: Set the resolution of the recorded video to one of the following:
  - » D1 (720 × 480)
  - » SVGA (800 × 600)
  - » XGA (1024 × 768)
  - » 720P (1280 × 720)
  - » SXVGA (1280 × 960) or
  - » 1080P (1920 × 1080 - full HD)

    Note that when the Resolution on the Primary Streaming is set to 1080P, Secondary streaming will be disabled.
- Bit Rate (for H264/MPEG4 codecs): Set the video bit rate from 500-8000 kbit/s
- Quality (for MJPEG codec only): HIGH, NORMAL, LOW
- Frame Rate: Set the frame rate for the recorded video to 1, 3, 7.5, 10, 15 (available only with 1080P resolution), or 30 fps (unavailable with 1080P resolution)

Configure Stream 2 - Secondary Streaming:

- Video Codec: Set the compression mode to OFF (disable secondary streaming, H264 or MPEG4).
- Resolution: Set the resolution of the recorded video to:
  - » CIF (360 × 240)
  - » 2CIF (720 × 240)
  - » VGA (640 × 480)
  - » D1 (720 × 480)
- Bit Rate: Set the video bit rate from 500-4000 kbit/s
- Frame Rate: Set the frame rate for the recorded video to 1, 3, 7.5, 15 fps or 30 fps

Configure Stream 3 - Third Streaming (Live View):

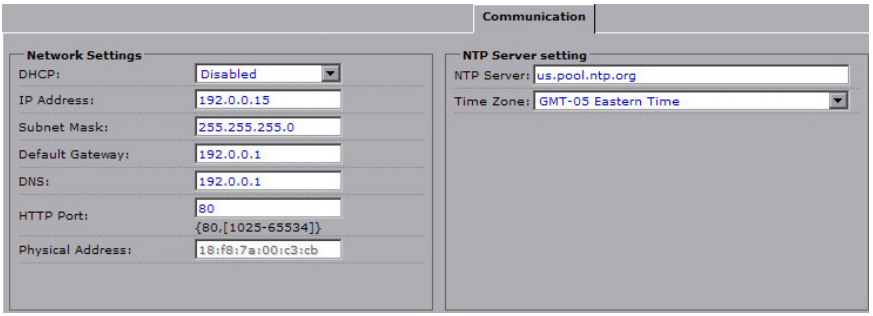
- Video Codec: OFF or MJPEG. OFF setting will result in no video on Live View.
- Resolution: Resolution for Third Streaming is pre-set to VGA and cannot be changed.

Advance Settings:

- White Balance: Set White Balance mode to **Auto** or **Manual** according to the image's lighting conditions for the best color temperature.
- Sensitivity (Use when White Balance is set to Auto): Set between 1 and 10. Adjust the sensitivity of the camera's white balance function manually.
- R Gain, G Gain, B Gain (Use when White Balance is set to Manual): Adjust levels of red, green and blue in the image. Values can be set from 0.4-4.0
- Brightness: adjust the image brightness level, Values range from 0% to 100%.
- Contrast: adjust the image contrast level. Values range from 0% to 100%.
- Saturation: adjust the image saturation level. Values range from 0% to 100%.
- Sharpness: adjust the image sharpness level. Values range from 0% to 100%.

After making any setting adjustments, remember to click the **Save** button to save any changes made.

6.3 Communication Setup



The Communication tab is used to configure network and communication settings on the camera.

Network settings:

- DHCP: Enable or Disable to have the network automatically assign an IP address to the camera.
- IP Address: Manually enter the camera's IP address here. This option should NOT be used if DHCP is enabled.
- Subnet Mask: Manually enter the camera's Subnet Mask here. This option should NOT be used if DHCP is enabled.

- Default Gateway: Provide the IP address of the network's router if necessary. Contact your network administrator for this information.
- DNS: Specify a DNS if necessary.
  Contact your network administrator for this information.
- HTTP Port: Use the default Port 80 if possible. Contact your network administrator if the setting needs to be changed.
- Physical Address: This is the camera's unique MAC Address. It may not be changed.

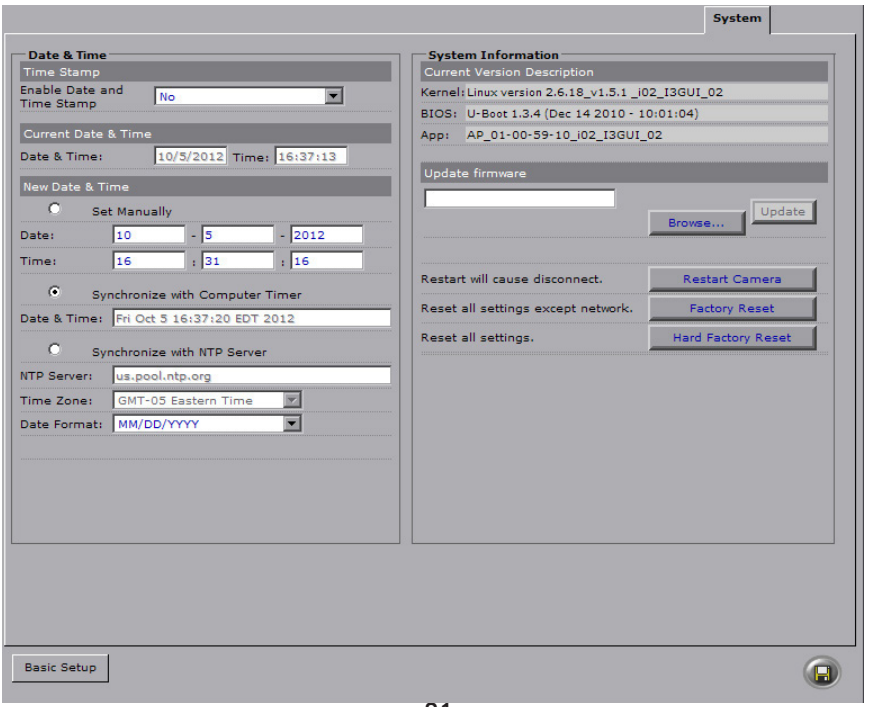
NTP Server setting:

Enter NTP Server setting information to synchronize the camera with an NTP server.

- NTP Server: assign an IP address or domain name for a time server. Default NTP Server: us.pool.ntp.org
- Time Zone: select the correct time zone.

After making any setting adjustments, remember to click the **Save** button to save any changes made.

6.4 System Setup



In this section, you can configure basic camera system settings.

- Time Stamp: Select **Yes** to enable *Date and Time Stamp* to display the date and time on the camera feed. Select **No** to hide it.
- Current Date & Time: Displays the camera's current date and time
- New Date & Time: You may choose to...
  - » Set the Date and Time **Manually**
  - » Synchronize Date & Time with **Computer Time** or
  - » Synchronize Date & Time with **NTP Server**. NTP Server and Time Zone can be configured in the Communication Setup tab. *See section 6.3 for details.*
- Date formats include: YYYY/MM/DD, MM/DD/YYYY and DD/MM/YYYY.

System Information:

This section contains information on the Camera's Kernel, BIOS version and App (firmware) version.

Update:

All Annexxus-series cameras are sold with the most recent version of the firmware already installed. If in the future firmware updates are released, you can update your camera's firmware by first downloading the firmware file from i3 International's website or FTP site. After downloading firmware file, click the **Browse...** button in the camera's System setup tab and locate the new firmware file. Then click the **Update** button and wait while the firmware is being updated on your camera.
Note: Be sure to stop all camera operations prior to an update. Do not turn off power or disconnect from the network during the process.
Click **Restart** Camera after you have updated firmware successfully.

Restart/Reset:

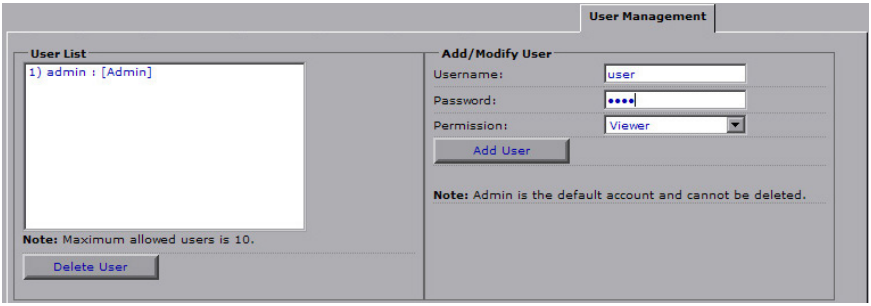
- Click **Restart Camera** to restart your Annexxus-series camera. This will cause a temporary disconnect, no video will be recorded while the camera is restarting but all custom settings will be saved. Camera restart is required after the firmware update. After clicking, a pop up will appear asking you to confirm. Click **Yes**.
- Click **Factory Reset** to return all settings, except for the Networking (IP) settings to factory defaults. After clicking, a pop up will appear asking you to confirm. Click **Yes**.
- Click **Hard Factory Reset** to return all camera settings, including IP address, to factory defaults. After clicking, a pop up will appear asking you to confirm.

Click **Yes**.
Note: Your Network Camera's default IP address is **192.0.0.16** and the default subnet mask address is **255.255.255.0**.

After making any setting adjustments, remember to click the **Save** button to save any changes made.

6.5 User Management

User Management tab displays the list of users that have access to the Annexxus camera. The username and password from this setup tab are used when connecting the camera to SRX-Pro Server. See section 5 (page 16) for more information.



Reminder: Whenever a change is made to the Annexxus camera user in the camera's Advanced Setup -> User Management tab, remember to update this information in the *IP Setup tab* of the SRX-Pro Server.
Two types of user permissions exist: **Aministrator** and **Viewer**. Administrator users have access to the camera's setup settings, while Viewer may only view camera live stream. Up to 10 unique users can be created per Annexxus camera.
Note: The default Administrator account **admin**/**1234** may not be deleted.

6.5.1 Changing the Password on the Default Account

Note: You may use these instructions to change password for any existing user account. To do so, follow instructions below but enter the desired account name in Step 1 instead of typing "admin".

To change the password on the default "admin" account, follow instructions below:
1. Type **admin** in the *Username* field of the Add/Modify User area.
2. Enter new password in the *Password* field of the Add/Modify User area.

3. Ensure *Permission* is set to **Administrator**
4. Click the **Add User** button
5. The message will be displayed: "*User information has been changed*". The default password for the admin user has now been changed.

6.5.2 Adding New User

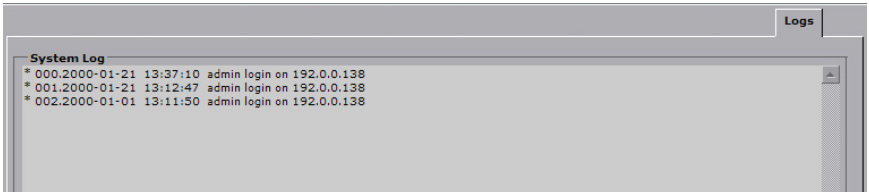
To add a new user, follow instructions below:
1. Enter new user name in the *Username* field of the Add/Modify User area.
2. Enter password in the *Password* field of the Add/Modify User area.
3. Set *Permission* to **Viewer** or **Administrator**
4. Click the **Add User** button. New user will be added to the User List.

6.5.3 Deleting User

To delete a user, follow instructions below:
1. Select a user in the User List
2. Click the **Delete User** button
3. Click **OK** in a confirmation window. The user will be deleted from User List.

6.6 Logs

Logs setup tab displays all login and Alarms log records.



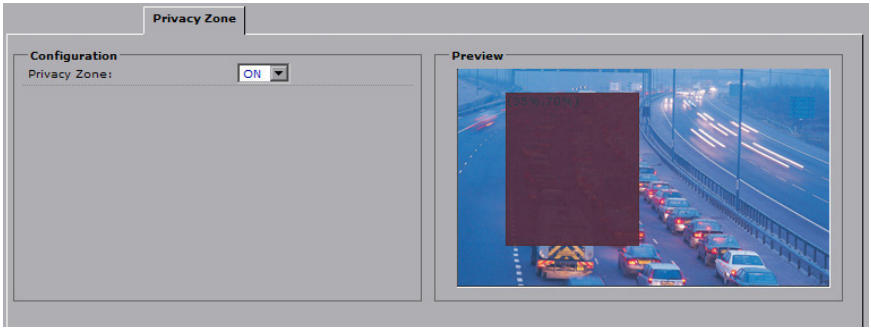
6.7 Privacy Zone (optional)

In the Privacy Zone setup tab, select an area that needs to be blocked off with a black rectangle on Live View and from video recording because of privacy or other concerns.

To draw the privacy zone, follow these instructions:

1. Position your mouse cursor over the Preview window, press and hold the left mouse button.
2. While holding down the left mouse button, drag the cursor to draw a rectangular area over the zone that needs to be concealed.
3. Release the mouse button. The privacy area rectangle will be shaded purple in the Preview window.
4. If you are not satisfied with the size or positioning of the privacy zone, repeat steps 1-3 to re-draw it.
5. Set the Privacy Zone to **ON** to activate this setting.

After making any setting adjustments, remember to click the **Save** button to save any changes made.



6.8 Exposure

Set the exposure level for your camera. Exposure time determines how much light passes through the camera aperture to the focus.

Auto Exposure: Select this option to correct the exposure automatically.

- Method: Select either **Center Weighted** or **Object Targeted**. If **Object Targeted** method is selected, select the target areas by clicking squares displayed on the Exposure Mode preview screen.
- EV: Set exposure value between -2 and 2. Higher values produce brighter images.
- Max Exposure: Set the maximum exposure time. Values range from 1/3.75 to 1/1000.
- Min Exposure: Set the minimum exposure time. Values range from 1/30 to Unlimited.
- Sensitivity: Set the exposure sensitivity. Exposure will increase as the sensitivity value increases relative to the time interval. Values range from 1 to 10 with 10 being the most sensitive.

- Max Gain: Set the maximum gain value. The higher value will enhance the video signal. Note that the noise will also be enhanced. Values range from 2 to 16 to Default.

Manual Exposure: Select this option to correct the exposure manually.

- Exposure Time: Set the exposure time. Acceptable value range is from 1/10000 to 1/3.75 sec.
- Gain: Set the Gain value. The values range from 0 to 16

BLC Configuration

- When parts of the environment are poorly lit, BLC can be turned ON to compensate for inadequate lighting conditions. To configure the individual areas that will receive compensation, click on the squares displayed in the BLC Configuration preview screen. Enabled areas will be shaded purple.

Digital WDR

- Set the Wide Dynamic Range Level if desired. The WDR can be turned OFF, set to Auto or to Levels 1-5.

7. Specifications

Features/Model	Ax51B
Image System	
Image sensor	1/2.7" 2 MP image sensor optimized for low-light performance
Image compression method	Triple Streaming : H.264 / MPEG4 / Motion JPEG
Maximum Framerate vs Resolution	Up to 15fps (NTSC)/12.5fps (PAL) at 1920x1080 (2M)
Lens	Built-in fixed lens f=3.1mm, F=2.0 (2 Megapixel lens)
View Angle	77°±5% (H), 57°±5% (V)
Electric	
Shutter Time	Range from 1/10000s to 1/3.75s selectable (60Hz); Range from 1/10000s to 1/3125s selectable (50Hz)
Day/Night Mode	Mechanical (ICR) D/N Control
Minimum Illumination	IR LED OFF: 1.5 lux (F2.0, 50 IRE, 1/15s), IR LED ON: 0 lux
IR LED	IR LED 24pcs(850nm)
IR Distance	25 meters (82 ft.)
IR turn on Status	Under 10 lux by auto control
LED Life	More than 10,000 hours (50ºC)
Video Port	BNC x1, 1.0 Vp-p, 75Ω
Video Output	NTSC: 720 x 480 @30fps; PAL: 720 x 576 @25fps
Image Enhance	Exposure Mode: Auto/Manual; White Balance: Auto/Manual; Backlight Compensation: 5x5 zones selectable; Sharpness, Saturation, Brightness, Contrast: 255 level sensitivity
Privacy Zone	Yes, customized threshold privacy zone
Alarm Detection	Motion Detection: 5 x 5 Motion detection zones & 5 level sensitivity or customized threshold
Image Orientation	Mirror, Flip
Other	System Log, Time Stamp, Snapshot, User Management
Power Supply	
Power Requirement (outdoor)	DC 24V ± 10%, AC 24V ± 10%
Power Requirement (indoor)	PoE (Class 3, IEEE802.3af), DC 12V ± 10%, AC 24V ± 10%
Power Consumption (max.)	<20W (Heater ON, IR LED ON) <8W (Heater OFF, IR LED ON)
Network	
Ethernet	10Base-T/100Base-TX Ethernet connection for LAN/WAN, RJ-45
Internet Protocol	IPv4, TCP/IP, UDP, HTTP, HTTPs, SMTP, DNS, DHCP, NTP, FTP, RTP, RTSP, ICMP, uPnP
Browser	SRX-Pro Server, SRX-Pro Remote Agent OR IE Browser 6.0 or above
I/O Connector	
Reset	≤ 5 sec for rebooting the camera, > 5 sec for loading default settings
Mechanism	
Dimensions (øxH)	ø70mm x 162mm x 81.5mm (2.76" x 6.38" x 3.21")
Weight	550g (1.1lb)

The specifications are subjects to be change without notice

Features/Model (cont.)	Ax51B
Environment	
Operating Temperature	-40ºC ~ 50ºC (-40ºF ~ 122 ºF)
Operating Humidity	10 ~ 90% RH
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Protection Class	IP67
Regulatory	CE, FCC, RoHS
Accessory	
Mount Type	Wall mount/Ceiling mount with free pack-in bracket

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